

IN THE CLAIMS:

1. (Currently Amended) A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface;

an elastic member for rockably supporting the movable plate; and

a support for supporting the elastic member, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate including a first portion having the reflective surface, and a second portion including an electric element, the first portion having a reflective-surface forming surface with the reflective surface formed thereon, the reflective-surface forming surface being reflective substantially throughout, the second portion having an electric-element forming surface with the electric element formed thereon, and the reflective-surface forming surface of the first portion being formed in such a shape as to be substantially inscribed in the electric-element forming surface of the second portion, wherein the reflective surface forming surface of the first portion has an area smaller than an area of the electric-element forming surface of the second portion, and the reflective-surface forming surface of the first portion is positioned opposite to the electric-element forming surface of the second portion in the direction of the thickness of the movable plate ~~wherein the reflective-surface forming surface of the first portion is smaller than the electric-element forming surface of the second portion.~~

2. (Previously Presented) The mirror rocking member according to claim 1, wherein the electric-surface forming surface of the second portion has a rectangular shape, and the reflective-surface forming surface of the first portion has an elliptical shape.

3. (Previously Presented) The mirror rocking member according to claim 1, wherein the electric-element forming surface of the second portion has a rectangular shape, and the reflective-surface forming surface of the first portion has a dodecagonal shape.

4. (Withdrawn) The mirror rocking member according to claim 1, wherein the movable plate, the elastic member, and the support are formed from a start wafer of a single-crystal silicon substrate.

5. (Withdrawn) The mirror rocking member according to claim 4, wherein the reflective-surface forming surface of the first portion has a dodecagon shape.

6. (Withdrawn) The mirror rocking member according to claim 4, wherein the first portion and the second portion of the movable plate are formed by processing the single-crystal silicon substrate in different shapes from opposite surfaces of the single-crystal silicon substrate by dry etching.

7. (Withdrawn) The mirror rocking member according to claim 4, wherein the single-crystal silicon substrate has a (100) plane orientation, the first portion of the movable plate is formed by processing the single-crystal silicon substrate by wet etching, and the second portion of the movable plate is formed by processing the single-crystal silicon substrate by dry etching.

8. (Withdrawn) The mirror rocking member according to claim 4, wherein the single-crystal silicon substrate has a (100) plane orientation, and the first portion and the second portion of the movable plate are formed by processing the single-crystal silicon substrate by wet etching, respectively.

9. (Withdrawn) The mirror rocking member according to claim 4, wherein a roundness (R) is applied to a concave corner portion of a step of the first portion and the second portion of the movable plate.

10. (Withdrawn) The mirror rocking member according to claim 1, wherein the movable plate, the elastic member, and the support are formed from a start wafer of a silicon-on-insulator (SOI) substrate, which comprises two single-crystal silicon layers and an intermediate insulating layer positioned between the single-crystal silicon layers, and the first portion and the second portion of the movable plate are partially constituted of the two single-crystal silicon layers, respectively.

11. (Withdrawn) The mirror rocking member according to claim 10, wherein the elastic member is constituted of a part of one of the two single-crystal silicon layers.

12. (Withdrawn) The mirror rocking member according to claim 10, wherein the first portion and the second portion of the movable plate are formed by processing the two single-crystal silicon layers by dry etching, respectively.

13. (Withdrawn) The mirror rocking member according to claim 10, wherein one of the two single-crystal silicon layers has a (100) plane orientation, the first portion of the movable plate is formed by processing the single-crystal silicon layer by wet etching, and the second portion of the movable plate is formed by processing the other one of the two single-crystal silicon layers by dry etching.

14. (Withdrawn) The mirror rocking member according to claim 10, wherein both the two single-crystal silicon layers have a (100) plane orientation, and the first portion

and the second portion of the movable plate are formed by processing the two single-crystal silicon layers by wet etching, respectively.

15. (Withdrawn) The mirror rocking member according to claim 10, wherein a roundness (R) is applied to a concave corner portion of a step of the first portion and the second portion of the movable plate.

16. (Withdrawn) The mirror rocking member according to claim 1, wherein the electric element comprises a driving coil extending along a periphery of the movable plate, and the driving coil cooperates with a permanent magnet disposed in the vicinity of the driving coil to constitute the driving means.

17. (Withdrawn) The mirror rocking member according to claim 1, wherein the electric element comprises a pair of electrodes, which cooperate with a fixed electrode disposed opposite to the electrodes to constitute the driving means.

18. (Withdrawn) A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface;

an elastic member for rockably supporting the movable plate; and

a support for supporting the elastic member, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate having a reflective-surface forming surface with the reflective surface formed thereon, an electric-element forming surface with the electric element formed thereon, and at least one hollow formed inside the movable plate.

19. (Withdrawn) The mirror rocking member for the optical deflector according to claim 18, wherein the movable plate further has a reinforcing rib structure formed inside the movable plate, such that the movable plate has a large number of hollows.

20. (Withdrawn) The mirror rocking member for the optical deflector according to claim 19, wherein the reinforcing rib structure comprises a honeycomb structure.

21. (Withdrawn) The mirror rocking member for the optical deflector according to claim 20, wherein the reinforcing rib structure has a vent hole for connecting an internal space of the movable plate to an external space.

22. (Currently Amended) A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface;

elastic members for rockably supporting the movable plate; and

a support for supporting the elastic members, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate including a first portion having the reflective surface, and a second portion including an electric element, the first portion having a reflective-surface forming surface with the reflective surface formed thereon, the reflective-surface forming surfacing being reflective substantially throughout, the second portion having an electric-element forming surface with the electric element formed thereon, and the reflective-surface forming surface of the first portion being formed in such a shaped as to be substantially inscribed in the electric-element forming surface of the second portion, wherein the reflective surface forming surface of the first portion has an area smaller than an area of the electric-element forming surface of the second portion, and the reflective-

surface forming surface of the first portion is positioned opposite to the electric-element forming surface of the second portion in the direction of the thickness of the movable plate
~~wherein the reflective surface forming surface of the first portion is smaller than the electric-element forming surface of the second portion.~~

23. (Withdrawn) A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

- a movable plate having a reflective surface;
- elastic members for rockably supporting the movable plate; and
- a support for supporting the elastic members, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate having a reflective-surface forming surface with the reflective surface formed thereon, an electric-element forming surface with the electric element formed thereon, and at least one hollow formed inside the movable plate.